CLAIMS

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Optical device comprising:

a quantic we $oldsymbol{1}$ l laser with a laser cavity formed by a laser medium between a reflection face (8) and an output face (9) reflecting part of the curve cavity, energy to the light the cavity the gain of representing wavelength having a positive function of the slope for incredsing wavelengths, a maximum for a wavelength $\lambda_{\scriptscriptstyle{max}}$ and then a negative slope.

- means (2, 3, 4) of coupling the laser output to an optical fiber (5), the optical fiber having a defining a coefficient of a fiber network (5) wavelength λ pęak for. reflection reflecting a fraction of the light received from the laser through the fiber, to the laser cavity through coupling means (2, 3, 4).

device characterized in that the value of the wavelength λ defining the reflection peak of the fiber Bragg network is less than the value of the wavelength $\lambda_{\scriptscriptstyle max}$ by $\backslash\!\!\!/$ at least 10 nanometers at ambient temperature (25°C).

according claim 1, device to Optical characterized in that the value of the wavelength λ is 15 mm plus or minus 5 nm less than the value of the wavelength λ_{max} .

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- 3. Optical device according to claim 1, characterized in that the value of the network reflection coefficient (6) is more than ten times greater than the reflection coefficient (9) from the laser output face.
- 4. Optical device according to claim 1, characterized in that the value of the wavelength λ_{max} is at least 13 nm greater than the wavelength λ at which the network (6) has a reflection peak when the operating temperature is equal to 25°C.
 - 5. Optical device according to claim 2, characterized in that the value of the wavelength λ_{max} is at least 13 nm greater than the wavelength λ at which the network (6) has a reflection peak when the operating temperature is equal to 25°C.
- 6. Optical device according to claim 3, characterized in that the value of the wavelength λ_{max} is at least 13 nm greater than the wavelength λ at which the network (6) has a reflection peak when the operating temperature is equal to 25°C.

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